


GOWLINGS

September 12, 2000

The Commissioner of Patents
and Trademarks

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Jc917 U.S. PTO
09/662166

09/14/00

Dear Sirs:

Transmitted herewith for filing is the following Patent Application:

Inventor(s): *Thomas John Bitove, Rick Koifman, Peter Adamson
Walcot and Steven Richard Winch*

Title: **METHOD FOR PROVIDING A QUANTITY OF TELEPHONE TIME
FROM AN ATM OR POS TERMINAL**

Case Reference: **T8-465969CIP:DDH**

Enclosed with the above application are the following:

- [X] 4 sheet(s) of drawings (Figs. 1 - 4)
- [X] An assignment of the invention to **Wireless Air Time Direct Inc.**
- A certified copy of
- [X] A signed Declaration and Power of Attorney, and accompanying Specification
- [X] A stamped return confirmation of receipt card for Serial No. notification
- [X] A signed Small Entity Form for Independent Inventor
- [X] A signed Small Entity Form for Small Business

The filing fee is:

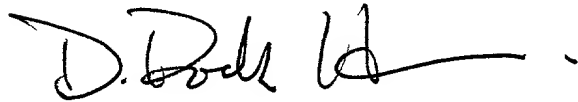
	Number filed	Number	extra	Rate	Basic fee
					\$395.00
Total Claims 14 - 20	=	0	X	\$ 11.00	\$00.00
Independent claims 4 - 3	=	1	X	\$ 40.00	\$40.00
Multiple Dependent claims		0	X	\$130.00	\$0.00
Assignment Recordal Fee					<u>\$7.00</u>
Total filing fee					\$442.00

Please charge our Deposit Account No. 07-1750 in the amount of \$ 442.00 to cover the filing fee and any fees for the Recordal of the Assignment.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-1750. A duplicate copy of this letter is enclosed for use in connection with any Deposit Account activity.

Respectfully submitted

GOWLING LAFLEUR HENDERSON LLP



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Patent Agent

Registration No. 33,105

DDH/sk

Encl.

INTELLECTUAL PROP.\253450_1

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9(f) AND 1.27 (b)) - INDEPENDENT INVENTOR**

Docket No.
T8465969CIP

Serial No.

Filing Date

Patent No.

Issue Date

Applicant/ **Wireless Air Time Direct Inc.**
Patentee:

Invention:

METHOD FOR PROVIDING A QUANTITY OF TELEPHONE TIME FROM AN ATM OR POS TERMINAL

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled above and described in:

- ☒ the specification to be filed herewith.
☐ the application identified above.
☐ the patent identified above.

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☐ No such person, concern or organization exists.
☒ Each such person, concern or organization is listed below.

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities (37 CFR 1.27)

FULL NAME **Wireless Air Time Direct**ADDRESS **99 Blue Jays Way, Suite 300, Toronto, Ontario, Canada, M5V 9G9**☐ Individual☒ Small Business Concern☐ Nonprofit Organization

FULL NAME

ADDRESS

☐ Individual☐ Small Business Concern☐ Nonprofit Organization

FULL NAME

ADDRESS

☐ Individual☐ Small Business Concern☐ Nonprofit Organization

FULL NAME

ADDRESS

☐ Individual☐ Small Business Concern☐ Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF INVENTOR Thomas John Bitove

SIGNATURE OF INVENTOR 

DATE: _____

NAME OF INVENTOR Rick Kojfman

SIGNATURE OF INVENTOR 

DATE: _____

NAME OF INVENTOR Steven Richard Winch

SIGNATURE OF INVENTOR 

DATE: _____

NAME OF INVENTOR Peter Adamson Walcott

SIGNATURE OF INVENTOR 

DATE: _____

NAME OF INVENTOR _____

SIGNATURE OF INVENTOR _____

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NAME OF INVENTOR _____

SIGNATURE OF INVENTOR _____

DATE: _____

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9(f) AND 1.27 (c)) - SMALL BUSINESS CONCERN**

Docket No.
T8465969CIP

Serial No.

Filing Date

Patent No.

Issue Date

Applicant/ **Wireless Air Time Direct Inc.**
Patentee:

Invention:

METHOD FOR PROVIDING A QUANTITY OF TELEPHONE TIME FROM AN ATM OR POS TERMINAL

I hereby declare that I am:

- ☐ the owner of the small business concern identified below:
☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN: **Wireless Air Time Direct Inc.**

ADDRESS OF CONCERN: **99 Blue Jays Way, Suite 300, Toronto, Ontario, Canada M5V 9G9**

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 37 CFR 1.21.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the above identified invention described in:

- ☒ the specification filed herewith with title as listed above.
☐ the application identified above.
☐ the patent identified above.

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed on the next page and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(c) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☐ no such person, concern or organization exists.
☐ each such person, concern or organization is listed below.

FULL NAME _____

ADDRESS _____

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

FULL NAME _____

ADDRESS _____

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

FULL NAME _____

ADDRESS _____

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

FULL NAME _____

ADDRESS _____

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING:

Thomas John Bitove

TITLE OF PERSON SIGNING

OTHER THAN OWNER:

President

ADDRESS OF PERSON SIGNING:

99 Blue Jays Way

Suite 300

Toronto, Ontario

Canada M5V 9G9

SIGNATURE: _____

DATE: _____

Sept 8, 2000

PATENT APPLICATION

**METHOD FOR PROVIDING A QUANTITY
OF TELEPHONE TIME FROM AN ATM
OR POS TERMINAL**

INVENTORS: Thomas John Bitove

Rick Kojfman

Peter Adamson Walcot

Steven Richard Winch

**METHOD FOR PROVIDING A QUANTITY
OF TELEPHONE TIME FROM AN ATM
OR POS TERMINAL**

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ABSTRACT OF THE DISCLOSURE

10 A method for providing a quantity of pre-paid telephone time from an automated teller
machine (ATM) or a point-of-sale device (POS terminal), to a patron of either of such
device. PIN numbers, obtained from a telephone service provider and each designating
a pre-paid quantity of telephone service time, are made available to the ATM or POS
terminal. The patron is queried by the device if he/she wishes to purchase telephone time.
Upon selection of a quantity of pre-paid telephone time by a patron and payment for such
15 purchased quantity of time, the device selects a particular PIN number having an
associated quantity of telephone time corresponding to the quantity of telephone service
time purchased by the patron, and provides such PIN number to the patron. In a preferred
embodiment the PIN number is provided to the patron by being printed out on the ATM's
existing account statement printer, or on the account statement printer of a POS terminal
20 if a POS device is alternatively employed. An ATM to permit patrons of such ATM to
purchase a quantity of telephone time from one of a plurality of telephone service
providers is further disclosed.

**METHOD FOR PROVIDING A QUANTITY
OF TELEPHONE TIME FROM AN ATM
OR A POS TERMINAL**

5 FIELD OF THE INVENTION

 The present invention relates to a method for providing a pre-paid quantity of telephone time to a customer via an automated teller machine (ATM) or a POS terminal, and an ATM adapted for such purpose.

10 BACKGROUND OF THE INVENTION

 Pre-paid telephone access codes, and the automated vending to the public of telephone cards bearing such pre-paid telephone access codes, have been in use in various forms since at least as early as 1972.

 A typical example of an automated means for dispensing a pre-paid telephone card is disclosed in United States Patent No. 5,696,908. Such patent discloses a microprocessor controlled vending machine , which in return for provision of federal reserve notes or provision of a debit or credit card for electronic funds transfer payment, dispenses a telephone card having an access code for a selected telephone service provider. In the preferred embodiment the access code is provided to the telephone service provider by the vending machine via a real- time communication with the telephone service provider at the time the card is being dispensed, to allow the card/code to be immediately activated by the telephone service provider for the quantity of purchased

telephone time. As may be seen from col. 7, lines 38-40, the machine may dispense the access code through a printer port 34 or display such code via a visual display³², rather than dispense a phone card 12 bearing such code.

5 As another typical example of a prior art telephone card vending machine, US 5,868,236 discloses a phone card vending machine which dispenses a phone card as well as a slip receipt that contains information about the value of service purchased, and on which an activated access code is printed.

10 Disadvantageously, each of the devices disclosed in US 5,696,908 and 5,868,236 relate to a dedicated vending machine for dispensing phone cards. Such dedicated machines are thus costly in that they do nothing else but dispense phone cards, and require an outlay of capital to purchase. They cannot therefore economically be ubiquitously provided at numerous locations such as at airports, train stations, bus terminals and the
15 like, to allow ready access by customers needing to purchase telephone time at such locations.

 Use of devices other than specially dedicated phone card dispensers, such as automated/automatic teller machines (ATM's) to dispense specially adapted telephone
20 cards, are known. For example, US 5,673,309 teaches a system whereby an ATM is provided with telephone card sheetlets. Each of the sheetlets has a coefficient of friction differential between opposed surfaces thereof which enables the sheetlets to be dispensed as individual sheetlets from an ATM in a manner identical to paper money, which allows an ATM to be used for dispensing pre-paid phone cards as an alternate to its normal
25 money dispensing function. The ATM disclosed in US 5,673,309 must be of a multiple bin or multiple drawer configuration (col. 4, lines 4-7) in order to permit one bin to

contain paper money to be dispensed, and the other bin to contain the sheetlets. Accordingly, although US 5,673,309 discloses a system which dispenses telephone access codes [ie. personal identification numbers (PIN's)] for pre-paid quantities of telephone time via an ATM and thereby overcomes the disadvantages of US 5,696,908 and 5,868,236 in having to otherwise acquire a dedicated apparatus to dispense pre-paid telephone time. Disadvantageously, however, the system of US 5,673,309 is limited to ATM's of a particular configuration. In particular, the system taught in US 5,673,309 is limited to ATM's having at least two (ie multiple) bins to hold both money, and sheetlets. Moreover, the system of US 5,673,309 requires use of specially-adapted sheetlets which must be specially supplied to the ATM's to permit them to dispense pre-paid telephone access codes.

Can. Pat. Application 2,222,749 , entitled "Methods and Apparatus for Providing a Pre-paid, Remote Entry Customer Account" discloses an ATM (202) that in one embodiment is used to print an immediately-activated authorization code on a receipt (referred to as an "instrument" 100) which is provided to a purchaser. Such authorization code, when provided by the purchaser to a telephone service provider 208 along with a dialed number, permits the purchaser to carry on conversation with a party at such dialed number up to the limit of the purchased time. Importantly, ATM (202) is in communication with service provider 208 via direct hardware link 209 (typically a modem communication link), or alternatively to a network host 230, with host 230 being connected to service provider 208 via link hardware/communication link 232. This feature permits telephone service provider 208 to keep track of authorization codes dispensed at the time of purchase and simultaneously to activate them at the time of dispensing (printing) to the customer. This system does not use the ATM, or the financial institution which operates the ATM and in respect of which the ATM may physically

communicate with, to store pre-printed cards having authorization (access) codes already printed thereon. Instead, it allows the authorization number to be immediately activated by the telephone service provider at the time of dispensation to the customer for immediate use by the customer. The interactive link 209/ 232 between the telephone service provider 208 and the ATM 202 further allows the capability of providing the customer with any quantum of pre-paid telephone time he/she may wish to purchase, rather than the purchaser only being able to select the telephone time from a limited selection of pre-determined quantities of telephone time.

Disadvantageously, however, in order to operate, the system and apparatus disclosed in Can. Pat. 2,222,749 as discussed above requires a hardware communication link 232 between the ATM and each of the telephone service providers 208 with whom a customer is given the option of purchasing pre-paid telephone time from. Accordingly, creating this communication link 232 between each ATM and each and every telephone service provider 208 who desires to vend pre-paid telephone time via such ATM's represents considerable added expense in implementing such a system. Due to the added expense, few ATM's are adapted to utilize this system, creating a serious problem in availability to potential users desiring to purchase telephone time through automated vending machines, including ATM's.

SUMMARY OF THE INVENTION

The present invention, in one of its broad embodiments, provides a method of vending pre-paid telephone time to customers through the many existing ATM machines

already conveniently located at airports, train stations, banks, shopping centres, and the like, with no physical modification to existing ATM's or their hardware, other than through software modifications on the ATM and/or the network host of the financial institution through which each ATM is connected .

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In addition, the invention further discloses a method by which telephone service time may be purchased from a point-of-sale (POS) terminal which is available at retail purchase counters and which typically have a display screen and a printer capability for printing a receipt, which heretofore have only been used by customers in association with a debit card to debit funds from a bank account for purchase of retail items. Such method hereinafter disclosed requires no physical communication link between the POS terminal and a telephone service provider in order for the customer to be provided with a PIN number.

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Accordingly, in one of the broad embodiments of the invention, a method for providing a quantity of pre-paid telephone time from a device comprising an automated teller machine (ATM) or a point-of-sale (POS) terminal, to a patron who accesses said device through provision of an encoded card and first personal identification number (PIN), without hardware imodification or additional communication links to said devices, is provided, comprising the steps of:

20

- a) supplying the ATM with a plurality of second PIN numbers, each of said second PIN numbers adapted, when purchased by a patron and

subsequently provided by said patron to a telephone service provider, to allow telephone service for the patron for a period of time up to said quantity of pre-paid time;

- 5 b) querying said patron of said ATM as to whether the patron wishes to purchase telephone time;
- 10 c) in response to input from said patron desiring to purchase telephone time, querying said patron as to whether the patron desires to charge the patron's credit card or to debit the patron's bank account;
- 15 d) in the event that the patron desires to charge the patron's bank account, verifying through an electronic clearing house that the patron has sufficient funds to purchase said quantity of telephone time, and debiting said bank account for said quantity of time;
- 20 e) in the event the patron desires to charge the patron's credit card, verifying through an electronic clearing house that the quantity of time desired to be purchased may be charged to said credit card, and charging said credit card for said quantity of time;
- f) upon satisfaction of d) or e) above, selecting one of said plurality of second PIN numbers; and

- g) printing said selected second PIN number and providing it to such patron via an existing account statement printer on said ATM machine.

Advantageously, using the above method, no hardware link is required between the device which dispenses the PIN (ie the access code) and the telephone service provider from whom the pre-paid telephone time is purchased. Instead, it is contemplated that the customer will, after purchasing the PIN number from the device, provide the PIN number dispensed by the device to the telephone service provider at the time of placing a call to a desired number (or shortly prior to placing the call in the manner as later explained herein), thereby permitting the telephone company to initially credit the customer's account with the purchased time and thereafter commence "debiting" the customer's account corresponding to the purchased authorization code, for the duration of such call, and for all further telephone calls, until such pre-paid telephone time is exhausted. This approach has the added advantage in that it permits telephone service providers, in the case of wireless telephones and patrons who provide the telephone service provider with their purchased PIN number using their wireless telephone, to correlate the frequency and identification code of the incoming wireless call with the purchased PIN number, thereafter eliminating the need for the patron to advise the telephone service provider of his/her PIN number every time a call is dialed/placed.

As well, the method as above described does not require supply of an specially-adapted sheetlets, instead printing the authorization code (PIN number) on paper via the existing account statement printer existing on nearly all ATM machines.

Where a POS Terminal is used, having a pre-existing communication capability with a financial institution and having an associated printer for printing receipts and the like as typically employed by retailers, the step of making the second PIN number available comprises storing said second PIN numbers on a database which is maintained
5 by the financial institution and which is capable of being accessed by the POS terminal.

In a further preferred embodiment of the above method, the patron is given the opportunity to purchase not just a fixed quantity of telephone time, but the ability to select from a variety of pre-determined quantities of telephone time. Accordingly, in such
10 preferred method, the plurality of second PIN numbers from which the device (POS Terminal or ATM unit) may select on behalf of a customer comprises a plurality of groups of second PIN numbers. Each second PIN number in a respective group of said groups of second PIN numbers permits telephone service for a pre-determined quantity of time, and each second PIN number within a respective group providing a different quantity of
15 pre-paid telephone time than second PIN numbers within another group. The patron in step b) above is further queried as to what quantity of a number of pre-defined quantities of telephone time such patron wishes to purchase; and in response to input from said patron as to the particular quantity of telephone time desired to be purchased, a second PIN number is selected from a respective group of second PIN numbers which provides
20 telephone time corresponding to the particular quantity of pre-defined quantities of telephone time selected by said patron. This selected second PIN number is, after verification that the patron possesses sufficient funds or has provided a valid credit card

with an unexceeded limit, then printed and provided to the patron via the device's existing account statement printer.

In another embodiment of the method of the present invention, it is desired to give the patron the option of not only purchasing a variety of pre-determined quantities of telephone time, but further the option of purchasing a variety of pre-determined quantities of telephone time from a variety of telephone service providers. This capability is extremely desirable as it is an added convenience to patrons, particularly where the patron is in possession of a wireless telephone which can only be operated through a particular service provider, and wishes to utilize the particular method of the invention (described supra) which allows the patron to simply contact his/her telephone service provider only once to advise of his/her purchased PIN number and thereafter need not advise his/her telephone service provider of the PIN number for each and every subsequent dialed telephone call.

Accordingly, in another aspect of the present invention wherein the patron may select to purchase time from a selection of telephone service providers, and may further select to purchase a particular quantity of pre-paid telephone time from a variety of pre-defined telephone times, the present invention in this particular aspect providing a method for providing a quantity of pre-paid telephone time from a device comprising an automated teller machine (ATM) or a point-of-sale terminal to patrons of said device, comprising in combination:

- 5 a) ordering a pre-determined amount of telephone time from a plurality of telephone service providers, and further obtaining from each telephone service provider a plurality of groups of second PIN numbers, each of said second PIN numbers when provided to a patron of such device and subsequently supplied by the patron to the telephone service provider adapted to allow telephone service for said patron for a pre-determined quantity of time, each of said second PIN numbers having associated therewith a pre-determined quantity of time for which telephone service will be enabled, said pre-determined quantity of time associated with second PIN numbers within one group of said plurality of groups being different from the pre-determined quantity of time associated with second PIN numbers within another of said groups of unique second PIN numbers;
- 10
- 15 b) querying a patron of said device, who accesses the device by providing the device with an encoded card and a first PIN number, as to whether the patron wishes to purchase telephone time;
- 20 c) in response to a positive reply to the aforesaid query, providing the patron with a plurality of telephone service providers to select from;
- d) providing to the patron a plurality of pre-defined quantities of telephone times which may be purchased, and requesting the patron select a particular pre-defined quantity of telephone time;

e) in response to input from said patron as to the quantity of time selected, querying said patron as to whether the patron desires to charge the patron's credit card or debit the patron's bank account;

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f) in the event that the patron desires to charge the patron's bank account, verifying that the patron has sufficient funds to purchase said quantity of telephone time, and debiting such account;

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g) in the event the patron desires to charge the patron's credit card, verifying that the quantity of time desired to be purchased may be charged to said credit card, and charging said credit card ;

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h) upon satisfaction of f) or g) above, selecting a second PIN number from a selected group of said plurality of groups of second PIN numbers, said selected group corresponding to a group of second PIN numbers associated with said selected telephone service provider and said selected quantity of telephone service time; and

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i) providing said selected second PIN number to such patron.

The step of providing the selected second PIN number to the patron [step i) above] may comprise providing it to the patron by displaying it on the device's cathode ray tube or liquid crystal display. However, in the preferred embodiment of this particular aspect

of the invention, the step of providing the second PIN number to the patron comprises printing the selected second PIN number on the device's existing account statement printer, and thereafter providing it to said patron, where such ATM or POS Terminal additionally has a printer.

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Advantageously, as mentioned above, the method of the present invention wherein the patron is provided with a PIN, and thereafter provides such PIN to his/her telephone service provider is particularly adapted for a method whereby the patron in possession of a wireless telephone need only provide his/her purchased PIN number once to his/her telephone service provider, and thereafter may place calls without having to further dial in the patron's purchased PIN number at the time of placing a call.

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Accordingly, in a further aspect of the present invention, a method is provided for crediting, via an automated teller machine (ATM) or POS Terminal, a quantity of pre-determined telephone time to a patron who possesses a wireless telephone having a pre-assigned telephone number, which permits said patron, after the initial provision of a second personal identification number(PIN) to a telephone service provider, to thereafter utilize said telephone for a period of time up to said quantity of pre-determined quantity of telephone time without having at the time of each subsequent telephone call to provide said telephone service provider with said second PIN number prior to being permitted to make said telephone call, which comprises in combination:

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- a) querying a patron of a device comprising an ATM or a POS Terminal, who accesses the device through provision to the ATM of an encoded card and

a first personal identification number (PIN), as to whether the patron wishes to purchase telephone time and what quantity of telephone time;

b) in response to input from said patron as to said quantity of time desired to be purchased, querying said patron as to whether the patron desires to charge the patron's credit card or to debit the patron's bank account;

c) in the event that the patron desires to charge the patron's bank account, verifying through an electronic clearing house that the patron has sufficient funds to purchase said quantity of telephone time, and debiting said bank account for said quantity of time;

d) in the event the patron desires to charge the patron's credit card, verifying through an electronic clearing house that the quantity of time desired to be purchased may be charged to said credit card, and charging said credit card for said quantity of time;

e) upon satisfaction of c) or d) above, selecting said second PIN number from a plurality of second PIN numbers, each of said second PIN numbers adapted, when supplied by said patron during a telephone call to a telephone service provider, to allow telephone service for the patron for a period of time up to said quantity of purchased time;

f) providing said selected second PIN number to such patron;

- g. receiving said second PIN number from said patron;
- h. correlating the pre-assigned telephone number of said wireless telephone with a corresponding account held by said telephone service provider in respect of said patron; and
- i. crediting said account with said quantity of pre-determined telephone time purchased by said patron as ascertained from said second PIN number.

Again, the step of providing the selected second PIN number to the patron may comprise displaying it on the device's display screen, but in the preferred embodiment comprises printing the selected second PIN number on the device's existing account statement printer, and thereafter providing it to said patron.

Using the method of the invention as described above, when a patron places a telephone call to his/her telephone service provider (the same telephone service provider from whom he/she purchased the second PIN number) on the patron's wireless telephone, because each wireless telephone has a specific frequency and identification code, the telephone service provider is able to, in accordance with the method of the present invention, correlate the supplied PIN with an existing account held by that particular patron/subscriber with the telephone service provider by referencing the PIN and identification code of the patron's wireless telephone with the telephone company's records for the subscribed patron having the particular wireless telephone number (ESN and/or MIN). Thereafter, having then credited the patron's account with the quantity of

purchased time as indicated from the purchased PIN, the telephone company need not thereafter by provided at the time of a placed call with the PIN number. Rather, by acknowledging the wireless telephone identification code when the call is placed, the telephone service provider can ascertain the identity of the caller and debit the caller/patron's account for the duration of all subsequently placed calls, up to the amount of pre-paid telephone time which had been credited to the patron's account.

In a further aspect of the invention, the invention comprises an ATM (programmed itself or directed by a network computer to which the ATM is connected) which is adapted to permit patrons of such ATM to purchase a quantity of telephone time from one of a plurality of telephone service providers, wherein such ATM is adapted to dispense a personal identification number (PIN), said PIN adapted, when supplied to a telephone service provider, to allow telephone service for said patron for said quantity of time, wherein the ATM operates in the following manner, namely:

- a) queries a patron who accesses the ATM through provision to the ATM of an encoded card and a first personal identification number (PIN), as to whether the patron wishes to purchase telephone time and what quantity of telephone time;
- b) in response to input from said patron as to said quantity of time desired to be purchased, querying said patron as to whether the patron desires to charge the patron's credit card or to debit the patron's bank account;

c) in the event that the patron desires to charge the patron's bank account, verifying through an electronic clearing house that the patron has sufficient funds to purchase said quantity of telephone time, and debiting said bank account for said quantity of time;

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d) in the event the patron desires to charge the patron's credit card, verifying through an electronic clearing house that the quantity of time desired to be purchased may be charged to said credit card, and charging said credit card for said quantity of time;

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e) upon satisfaction of c) or d) above, selecting a second PIN number from a plurality of groups of second PIN numbers, each of said second PIN numbers within a group of second PIN numbers having associated therewith a pre-determined quantity of time for which telephone service will be enabled, said pre-determined quantity of time associated with said second PIN numbers within one group of said plurality of groups being different from the pre-determined quantity of time associated with second PIN numbers within another of said groups of second PIN numbers; said selected second PIN number adapted, when supplied by said patron during a telephone call to a telephone service provider, to thereafter allow telephone service for the patron for a period of time up to said quantity of purchased time; and

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f) providing said selected second PIN number to such patron.

Again, the step of providing said selected second PIN number to said patron may comprise displaying such PIN number on the ATM's display screen, but in the preferred embodiment comprises printing said second PIN number on paper normally used for account statement print-outs, and providing it to said patron.

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DESCRIPTION OF THE DRAWINGS

The invention will be better understood having reference to the accompanying drawings depicting non-limiting particular embodiments of the invention, as well as the following detailed description, wherein:

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Figure 1 is schematic representation of a first particular embodiment of the method of the present invention for providing a patron with a pre-paid quantity of telephone time from an existing ATM machine;

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Figure 2 is a further preferred embodiment of a method of the present invention for providing a patron with a pre-paid quantity of telephone time from an existing ATM machine, wherein the patron is given not only a selection of pre-paid quantities of time to chose from, but is further given a selection of telco's (ie telephone service providers) in which to purchase hi/her desired quantity of pre-paid telephone time;

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Figure 3 is a schematic illustration of the components and apparatus used in the method of the present invention, where the device being used to dispense the PIN is an ATM; and

Figure 4 is a schematic illustration of the components and apparatus used in the method of the present invention, where the device being used to dispense the PIN is a point-of-sale terminal.

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DETAILED DESCRIPTION OF THE INVENTION

Figure 3 shows apparatus 10 for use in the method of the present invention where the device being used to dispense the PIN is an ATM. An automated/automatic teller machine (ATM) 12 of the type commonly employed by financial institutions is shown, having a cathode ray tube, liquid crystal, or other type of visual display screen 14, a keypad comprising a series of buttons 18 for inputting selections and keying in numbers, and an account statement printer 16. Such ATM 12 is typically linked to a network host computer 22 operated by the financial institution or bank with which the ATM 12 is associated, for permitting clients of such financial institution to access their accounts with such financial institution via such ATM 12. Such ATM 12 either itself or through the network host computer 22 as shown in Fig. 3 is typically linked to an electronic clearing house 24 to provide interface with accounts held by other financial institutions other than the financial institution with which ATM 12 may be associated.

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A patron typically accesses the ATM 12 through provision of an encoded card 50, and by entering a first personal identification number on buttons 18 comprising the keypad on the ATM 12.

Figure 4 shows apparatus 10 for use in the method of the present invention, where the device being used to dispense the PIN is a point-of-sale (POS) terminal 13. Such POS terminal 13 is of a type typically provided to retail customers of retail institutions, and is provided with a liquid crystal or other type of visual display screen 14, a keypad comprising a series of buttons 18 for inputting selections and keying in numbers, and an account statement printer 16. Such POS terminal 13 is typically linked to a network host computer 22 operated by the financial institution or bank with which the POS terminal 13 is associated, for permitting clients of such retail institutions to access their accounts with the financial institution via such POS terminal 13. Such POS terminal 13 either itself or through the network host computer 22 as shown in Fig. 4 is typically linked to an electronic clearing house 24 to provide interface with accounts held by other financial institutions other than the financial institution with which POS terminal 13 may be associated.

A patron typically accesses the POS terminal 13 through provision of an encoded card 50, and by entering a first personal identification number on buttons 18 comprising the keypad on the POS terminal 13.

The various methods of the present invention will now be described, with reference to Figs. 1-4 of the drawings. In general, description of the method of the invention with respect to an ATM 12 is generally equally applicable to the method of the invention utilizing a POS terminal 13, and vice versa, unless specifically set out to the contrary. When reference to a device is made, such reference is understood to comprise either an ATM 12 as shown in Fig. 3, or a POS terminal 13 as shown in Fig. 4.

In one of its broad aspects, the method of the present invention comprises supplying an ATM 12 (Fig. 3) or a network host 22 with which a POS terminal may be in pre-existing communication with (see Fig. 4) with a plurality of second PIN numbers. Such second PIN numbers may be loaded into a Read Only Memory (ROM) (not shown) onboard the ATM 12. Alternatively, and more preferably, second PIN numbers are provided to the network host computer 22 of the host financial institution with which the ATM 12 or POS terminal 13 interfaces (see Figs. 3 & 4, respectively), and loaded therein on a ROM chip or peripheral data storage device, such as a hard drive, CD-ROM, or the like. Each of the second PIN numbers, which may be in the form of a numeric or alpha-numeric code sequence of digits/alpha-numeric characters, are provided by telephone service providers 30 and are capable of being recognized by such service providers 30 in the manner more fully set out below. Alternatively, an intermediary entity may purchase a block of pre-paid telephone time from a telephone service provider 30, ascribe second PIN numbers for individual time allotments totalling the block of purchased telephone time, and thereafter supply the second PIN numbers to the telephone service provider 30 for its use in using them in the manner hereinafter described. Each of such second PIN numbers are adapted, when a patron who has purchased a (preferably unique) second PIN number supplies such second PIN number to an associated telephone service provider 30, to permit the service provider 30 to confirm the validity of such PIN number as being a valid number and one which designates a pre-paid quantity of telephone time. Typically the service provider 30 provides a toll-free 1-800 number or the like which may be dialed by a patron. Upon dialing such 1-800 number the patron is queried for and then provides (usually through a series of keyed-in entries on the alpha-numeric buttons on a telephone) the purchased second PIN number, and immediately thereafter enters the digits of the

telephone number to which he desires to place a call, and the patron is connected to such number (or additional numbers as the patron may dial, each time keying in the second PIN number) for the duration of the purchased telephone time.

5 A patron who accesses an ATM 12 or POS terminal 13 through provision to such device of an encoded card 50 and a first PIN number is queried whether the patron wishes to purchase a quantity of telephone time. This query may take the form of a single query, appearing on the visual display screen 14 if only one pre-determined quantity of pre-paid telephone time is available for purchase. Alternatively, such may take the form of two
10 queries, namely whether telephone time is desired to be purchased, and if so the amount of telephone time desired to be purchased which may be selected from a plurality of pre-determined fixed quantities of telephone times displayed on the display screen 14. Affirmative responses and selections are entered by the patron on one of the buttons 18 on the keyboard of the ATM 12 or POS terminal 13.. The patron is thereafter queried as
15 to whether the patron desires to charge the patron's credit card or debit the patron's bank account. In the event the patrons desires to charge the patron's bank account, verification through an electronic clearing house 24 (which includes the financial institution with which the ATM 12 or POS terminal 13 is associated) is conducted to verify that the patron has sufficient funds to purchase the selected quantity of telephone time, and the account
20 debited for the amount of purchased telephone time. In the event the patron desires to charge a credit card (which typically can only be done if the encoded card 50 is encoded with the patron's credit card number), verification occurs through an electronic clearing house 24 to ensure the quantity of purchased telephone time may be charged to the card, and if so the credit card charged for such amount.

The ATM 12 or POS terminal thereafter proceeds to select one of the plurality of second PIN numbers which have been pre-provided as discussed previously, and thereafter proceeds to print the selected second PIN number on paper 20 normally made available to the account statement printer 16 of ATM 12 or POS terminal 13, and thereafter
5 provided to the patron.

In a preferred embodiment, where it is desired to give a patron a choice of pre-determined quantities of telephone time (see Fig. 1), the supplied second PIN numbers provided to the ATM 12 or POS terminal 13 in the manner described above are broken
10 down into groups of second PIN numbers. Each second PIN number in a respective group of second PIN numbers is recognized by the telephone service provider 30 as permitting telephone service for a pre-determined quantity of time (such as \$10, \$20, or \$30, as shown in Fig. 1). Each second PIN number within a respective group provides a different quantity of pre-paid telephone time than second PIN numbers within another group.

In yet a further preferred embodiment, where it is desired to give a patron a choice of telephone service providers 30 to choose from (eg. telephone service provider A ("Telco A"), telephone service provider B ("Telco B"), etc., etc., as well as a choice of pre-paid time from each telephone service provider 30, a plurality of groups of second PIN
15 numbers from each Telco A, B, etc. are provided to the ATM 12 or the network host computer 22 interfacing with such ATM 12 or POS terminal 13 in the manner previously described, each group corresponding to a series of second PIN numbers corresponding to pre-paid service which would be supplied by a particular telephone service provider. For example, second PIN numbers associated with Telco A may have an "A" prefix, while
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those second PIN numbers associated with Telco B may have a "B" pre-fix or suffix. Each of the second PIN numbers in a particular group are sub-divided into sub-groups, with each second PIN number in a particular sub-group providing a pre-paid quantity of telephone time , with the pre-determined quantity of time associated with second PIN numbers within one sub-group being different from the pre-determined quantity of time associated with second PIN numbers within another of the sub-groups. For example, as may be seen from Fig. 2, a patron is give a choice of telephone service providers 30 (Telco A, Telco B, etc), and in respect of each telephone service provider a choice of three pre-determined quantities of telephone time (\$10, \$20, and\$30), prior to be thereafter being asked to select the desired mode of payment.

The method of the present invention, where the patron purchases telephone time for a wireless telephone 36, lends itself to certain advantages, namely not having to supply the second PIN number each and every time the patron places a call on the wireless telephone 36. Such method takes advantage of the fact that each wireless telephone 36 not only has a unique 10 digit mobile identification telephone number (MIN), but also possesses a special electronic identification serial number (ESN) used by the telephone service provider 30 to identify the wireless telephone 36 and to transmit to it. Accordingly, in this particular embodiment of the invention, with reference to Figs. 3 and 4, upon the patron purchasing a second PIN number, either printed on paper 20 or being provided by display 14 of ATM 12 or POS terminal 13, the patron places a call to the associated telephone service provider 30 from whom pre-paid telephone time was purchased. The second PIN number (typically a 10 digit numeric or alpha-numeric group of characters) is provided to the telephone service provider 30 by dialing a dedicated number, typically

a 1-800 number or the like, and keying in via the alpha numeric keypad on the wireless telephone, the second PIN number. The telephone service provider 30, when provided with the second PIN number in this manner, is able to correlate the existing telephone number of the wireless telephone 36 when it receives the radio frequency signal 38 (comprising the wireless telephone's ESN and/or MIN) from the wireless telephone 36 with a corresponding patron account maintained by the service provider 30 on a computerized account system 32 which telephone service providers 30 typically maintain for keeping track of customer accounts. The patron/customer's account is then immediately credited with the amount of purchased telephone time. Thereafter, it is no longer necessary for the patron to provide the second PIN number to the telephone service provider, in order to be connected with a dialed telephone number, since the telephone service provider can simply reference the patron's account upon receiving the wireless signal 38 containing the special identification code (MIN and/or ESN) which is evident from the call placed by the patron over wireless telephone 36.

Although the disclosure describes and illustrates the preferred embodiments of the invention, it is understood that the invention is not limited to these particular embodiments. Many variations and modifications will now occur to those skilled in the art. For a definition of the invention, reference is made to the appended claims.

WHAT IS CLAIMED IS:

1. A method for providing a fixed quantity of pre-paid telephone time from a device comprising an automated teller machine (ATM) or a point-of-sale (POS) terminal having a display screen and printing capability, to a patron of said device who accesses said device through provision to said device of an encoded card and first personal identification number (PIN), without hardware modifications to said device or additional communication links to a telephone service provider, comprising the steps of:

- a) making available to said device a plurality of pre-assigned second PIN numbers, each of said second PIN numbers adapted, when provided by said patron during a telephone call to a telephone service provider, to allow telephone service for the patron for a period of time up to said quantity of pre-paid time;
- b) querying said patron of said device as to whether the patron wishes to purchase telephone time;
- c) in response to input from said patron desiring to purchase telephone time, querying said patron as to whether the patron desires to charge the patron's credit card or to debit the patron's bank account;
- d) in the event that the patron desires to charge the patron's bank account, verifying through an electronic clearing house that the patron has sufficient

funds to purchase said quantity of telephone time, and debiting said bank account for said quantity of time;

e) in the event the patron desires to charge the patron's credit card, verifying through an electronic clearing house that the quantity of time desired to be purchased may be charged to said credit card, and charging said credit card for said quantity of time;

f) upon satisfaction of d) or e) above, selecting one of said plurality of second PIN numbers; and

g) printing said selected second PIN number and providing it to such patron via an account statement printer used in association with said device.

2. The method for providing a fixed quantity of pre-paid telephone time from a device as claimed in claim 1, wherein said device is a POS terminal having a pre-existing communication capability with a financial institution and having an associated printer, said step of making said second PIN numbers available to said device wherein said device is a POS terminal comprising storing said second PIN numbers on a database which is capable of being accessed by said POS terminal.

3. The method for providing a quantity of pre-paid telephone time from a POS terminal as claimed in claim 2, said plurality of second PIN numbers comprising a plurality of groups of second PIN numbers, each second PIN number in a

respective group of said groups of second PIN numbers permitting telephone service for a pre-determined quantity of time, each second PIN number within a respective group providing a different quantity of pre-paid telephone time than second PIN numbers within another group, further comprising the steps of :

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querying said patron in step b) as to what quantity of a number of pre-defined quantities of telephone time such patron wishes to purchase; and

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in response to input from said patron as to the particular quantity of telephone time desired to be purchased, selecting a second PIN number from a respective group of second PIN numbers which provides telephone time corresponding to the particular quantity of pre-defined quantities of telephone time selected by said patron.

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4. The method for providing a quantity of pre-paid telephone time from a POS terminal as claimed in claim 3, wherein said plurality of second PIN numbers are ordered from and provided by said telephone service provider.

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5. The method for providing a quantity of pre-paid telephone time from a POS terminal as claimed in claim 4;

said step of ordering a plurality of PIN numbers from said telephone service provider comprising ordering a number of groups of second PIN numbers, the number of groups of second PIN numbers being equal to said number of pre-defined quantities of telephone time.

6. The method for providing a quantity of pre-paid telephone time from a POS terminal as claimed in claim 5, further comprising, after or at the same time as step
- 5 a), querying the patron of said POS terminal as to whether the patron wishes to purchase telephone time from a selected list of telephone service providers.
7. A method for providing a quantity of pre-paid telephone time from a POS terminal in communication with an electronic clearing house, to patrons of said POS
- 10 terminal, comprising in combination:
- a) ordering a pre-determined amount of telephone time from a plurality of telephone service providers, and further obtaining from each telephone service provider a plurality of groups of second PIN numbers, each of said
- 15 second PIN numbers when provided to a patron of such POS terminal and subsequently supplied by the patron to the telephone service provider adapted to allow telephone service for said patron for a pre-determined quantity of time, each of said second PIN numbers having associated therewith a pre-determined quantity of time for which telephone service
- 20 will be enabled, said pre-determined quantity of time associated with second PIN numbers within one group of said plurality of groups being different from the pre-determined quantity of time associated with second PIN numbers within another of said groups of unique second PIN numbers;

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h) upon satisfaction of f) or g) above, selecting a second PIN number from a selected group of said plurality of groups of second PIN numbers, said selected group corresponding to a group of second PIN numbers associated with said selected telephone service provider and said selected quantity of telephone service time; and

i) providing said selected second PIN number to such patron.

8. The method as claimed in claim 7, said step of providing said second PIN number to such patron comprising printing said selected second PIN number on the POS terminal's existing account statement printer, and thereafter providing it to said patron.

9. The method as claimed in claim 8, said step of verifying that the patron has sufficient funds to purchase said quantity of telephone time comprising verifying sufficiency of such funds through an electronic clearing house communicating with said POS terminal.

10. The method as claimed in claim 9, said step of verifying that the quantity of time desired to be purchased may be charged to said credit card comprising verifying through said electronic clearing house communicating with said POS terminal..

11. A method for crediting, via a POS terminal, a quantity of pre-determined telephone time to a patron who possesses a wireless telephone having a pre-assigned telephone number, which permits said patron, after the initial provision of a second personal identification number(PIN) to a telephone service provider, to thereafter utilize
5 said telephone for a period up to said quantity of pre-determined quantity of telephone time without having at the time of each subsequent telephone call to provide said telephone service provider with said second PIN number prior to being permitted to make said telephone call, which comprises in combination:

- 10 a) querying a patron of a POS terminal, who accesses said terminal through provision to the terminal of an encoded card and a first personal identification number (PIN), as to whether the patron wishes to purchase telephone time and what quantity of telephone time;
- 15 b) in response to input from said patron as to said quantity of time desired to be purchased, querying said patron as to whether the patron desires to charge the patron's credit card or to debit the patron's bank account;
- 20 c) in the event that the patron desires to charge the patron's bank account, verifying through an electronic clearing house that the patron has sufficient funds to purchase said quantity of telephone time, and debiting said bank account for said quantity of time;

d) in the event the patron desires to charge the patron's credit card, verifying through an electronic clearing house that the quantity of time desired to be purchased may be charged to said credit card, and charging said credit card for said quantity of time;

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e) upon satisfaction of c) or d) above, selecting said second PIN number from a plurality of second PIN numbers, each of said second PIN numbers adapted, when supplied by said patron during a telephone call to a telephone service provider, to allow telephone service for the patron for a period of time up to said quantity of purchased time;

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f) providing said selected second PIN number to such patron;

g) receiving said second PIN number from said patron;

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h) correlating the pre-assigned telephone number of said wireless telephone with a corresponding account held by said telephone service provider in respect of said patron; and

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i) crediting said account with said quantity of pre-determined telephone time purchased by said patron as ascertained from said second PIN number.

12. The method as claimed in claim 11, said step of providing said selected PIN number to said patron comprising printing said selected second PIN number on said POS terminal's existing account statement printer and thereafter providing it to said patron.

5 13. The method as claimed in claim 11, wherein

said wireless telephone possesses a specific frequency and identification code;

10 said second PIN number is received from said patron upon receipt of a telephone call from said patron on said wireless telephone; and

said pre-assigned telephone number is correlated to said account of said patron when said telephone call is received from said patron.

15 14. The method as claimed in claim 13, said telephone number of said wireless telephone ascertained by said telephone service provider at the time said patron communicates said second PIN number to said service provider, said service provider thereafter matching said telephone number with said account and subsequently crediting
20 said account with said predetermined quantity of telephone time.

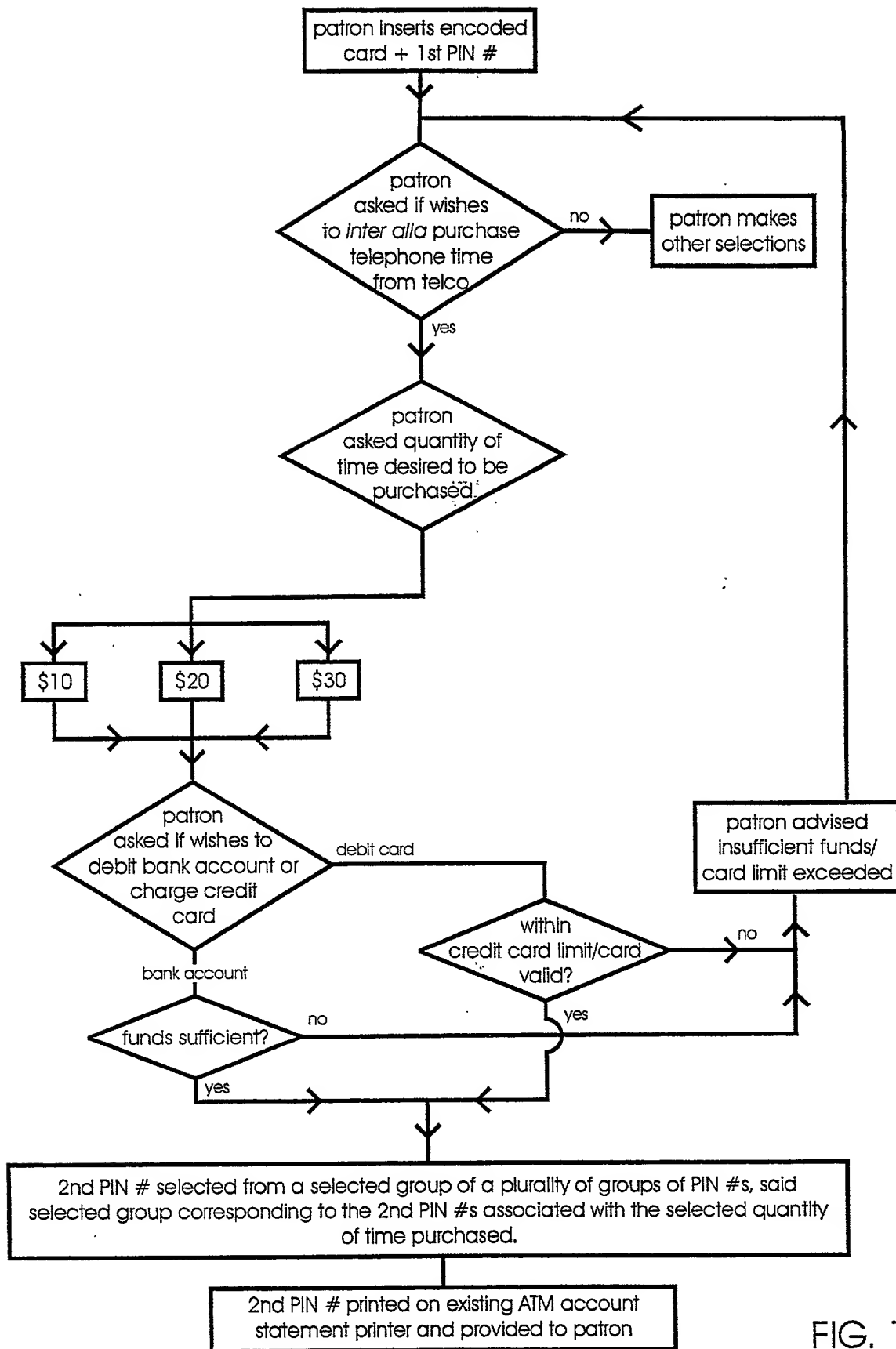


FIG. 1

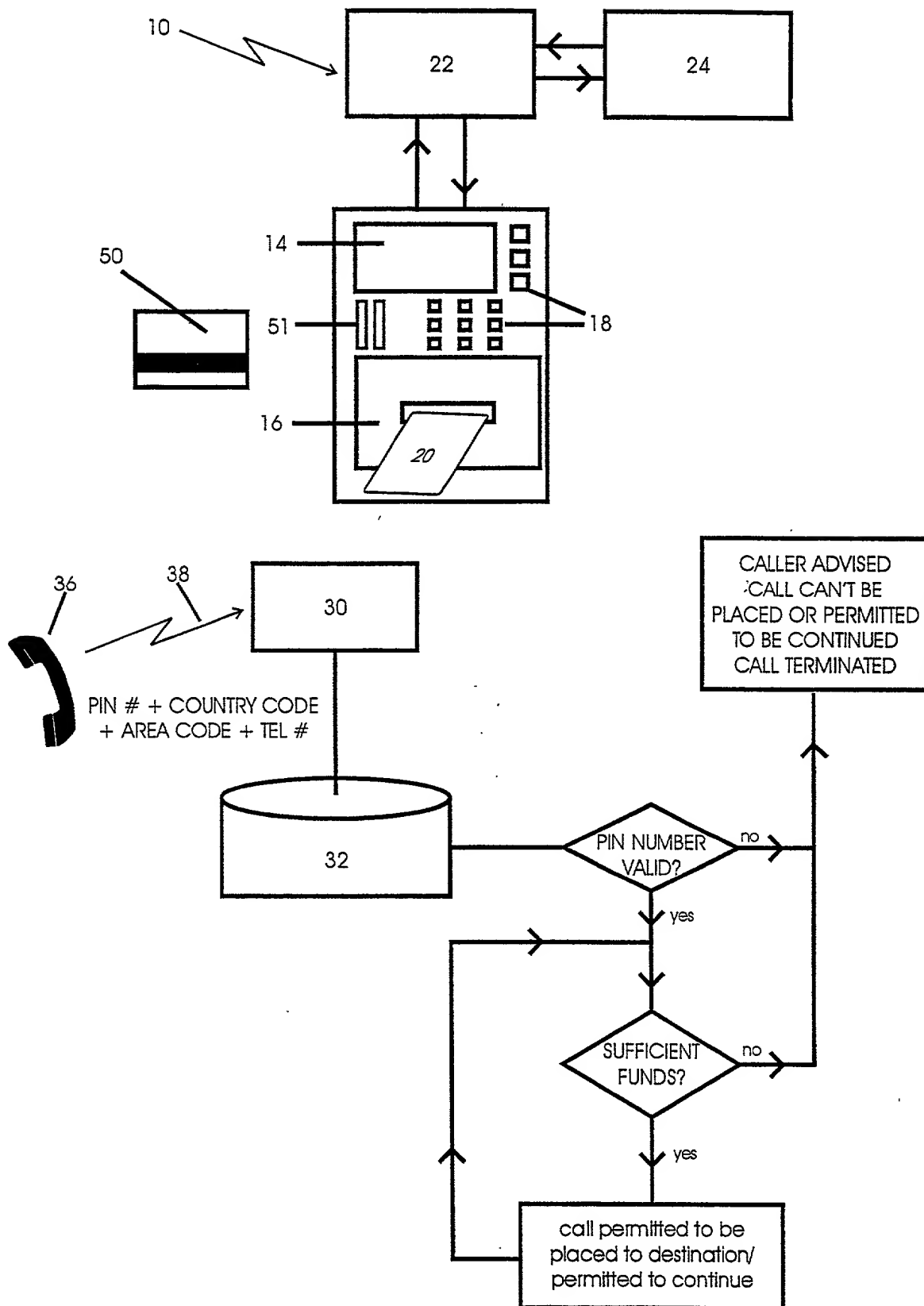


FIG. 3

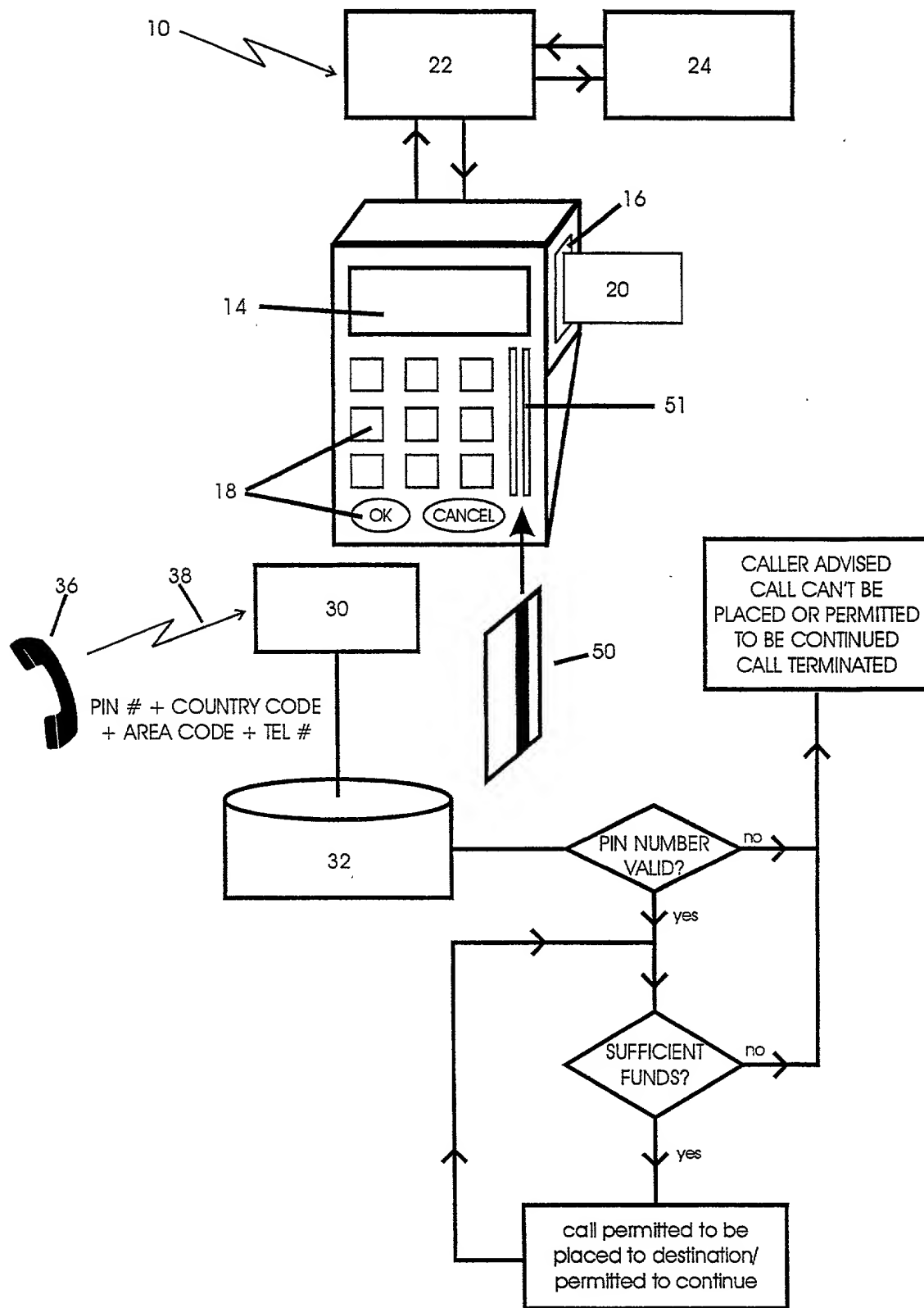


FIG. 4

Docket No.
T8465969CIP

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD FOR PROVIDING A QUANTITY OF TELEPHONE TIME ^{FROM} ~~FORM~~ AN ATM OR POS TERMINAL

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on _____ as United States Application No. or PCT International Application Number _____ and was amended on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)			Priority Not Claimed
<u>2,303,041</u>	<u>CANADA</u>	<u>29/03/2000</u>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
<u> </u>	<u> </u>	<u> </u>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
<u> </u>	<u> </u>	<u> </u>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

~~09/539,326~~

~~March 30, 2000~~

~~Pending~~

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

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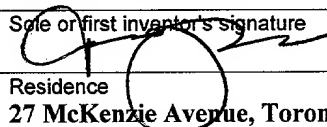
Ingrid Schmidt, Reg. No. 33,344

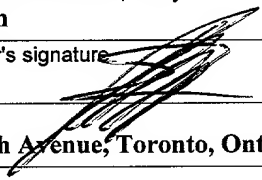
Robert F. Delbridge, Reg. No. 24,969

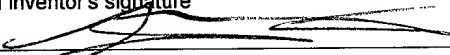
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Fifth inventor's signature	Date
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Citizenship	
Post Office Address	

Full name of sixth inventor, if any	
Sixth inventor's signature	Date
Residence	
Citizenship	
Post Office Address	